

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2014 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway			Bank	Unit Miles
Unit No. 01 Paradise Cut			Left	1.45
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	05/13/2014 - 05/13/2014			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Rosie Silva RD2095			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_RD2095_01_s _ 2013_14				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	17
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD2095_01_s _ 2013_17				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	19
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_RD2095_01_s _ 2013_19				
Action/Comments					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.07	Rating **	A/W	Issue No.	3
LM End	0.07	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.770572 °	37.770572 °
				-121.326283 °	-121.326283 °
DWR ID	DWR_RD2095_01_s _ 2013_3				
Action/Comments					
Pipe					

Photo 1 of 1 : mkhashch_s_20140428_00786.jpg



View of the pipe at waterside levee hinge.

LM Start	0.11	Rating **	A/W	Issue No.	134
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.770212 °	37.770212 °
				-121.325675 °	-121.325675 °
DWR ID	DWR_RD2095_01_s _ 2014_134				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : mkhashch_s_20140519_01017.jpg



View of the vehicle access on the waterside levee slope.

LM Start	0.15	Rating **	A/W	Issue No.	32
LM End	0.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.769977 °	37.769977 °
				-121.325012 °	-121.325012 °
DWR ID	DWR_RD2095_01_s _ 2012_32				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: LMA is actively controlling the slope instability.					

Photo 1 of 1 : mkhashch_s_20140519_01018.jpg



View of the repaired waterside levee slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.35	Rating **	A/W	Issue No.	5
LM End	0.35	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.767822 °	37.767822 °
				-121.322835 °	-121.322835 °
DWR ID	DWR_RD2095_01_s _ 2012_5				
Action/Comments					
Pipe Inspector Comments: No closure devices or flap gate on discharge pipe. Pipe penetrates freeboard of levee.					

Photo 1 of 2 : mkhashch_s_20140428_00788.jpg



View of the pipe penetrating waterside levee slope.

LM Start	0.35	Rating **	A/W	Issue No.	5 (cont)
LM End	0.35	Issue Type +	En	Location *	CR

Photo 2 of 2 : mkhashch_s_20140428_00789.jpg



View of pipe day lighting at landside levee slope.

LM Start	0.42	Rating **	A/W	Issue No.	13
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.766917 °	37.766917 °
				-121.322267 °	-121.322267 °
DWR ID	DWR_RD2095_01_s _ 2013_13				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access					

Photo 1 of 1 : mkhashch_s_20140519_01019.jpg



View of the repaired waterside levee slope.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.70	Rating **	M	Issue No.	129
LM End	0.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.763859 °	37.763859 °
				-121.319096 °	-121.319096 °
DWR ID	DWR_RD2095_01_s_2014_129				
Action/Comments					
Inspector Comments: FS_ID:19787					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Wooden walkway to pier possible safety hazard as wood planks are rotten. Positive closure device missing from distribution box on LS toe.					
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 8.0 feet below the crown. Pump on pile structure in the channel. 5'X5' concrete distribution box at the toe of the landward slope. Originally included in the 1964 O&M manual.					
FS Date: 9/10/2013					

Photo 1 of 1 : UCIP_2116.jpg



Pump on pier on WS toe.

LM Start	0.70	Rating **	M	Issue No.	11
LM End	0.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.763630 °	37.763630 °
				-121.319045 °	-121.319045 °
DWR ID	DWR_RD2095_01_s_2012_11				
Action/Comments					
Building					
Inspector Comments: Pump house near RR.					

Photo 1 of 1 : mkhashch_s_20140428_00791.jpg



View of building at the landside levee toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.73	Rating **	M	Issue No.	1
LM End	0.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.763630 °	37.763630 °
				-121.319000 °	-121.319000 °
DWR ID	DWR_RD2095_01_s _ 2014_1				
Action/Comments					
Inspector Comments: 08/28/2013: No significant change observed. 07/18/2012: No significant changes observed. 09/02/2011: No significant changes observed. 09/22/2010: No significant changes observed. There is now considerable vegetation at the water line and along the lower berm slope. However, the erosion on the lower berm slope is still present and has not been corrected. 08/06/2010: Recommended for local maintenance issue, per CLRO. 07/29/2009: No major change since last visit; noticeable vegetation growth; erosion is on berm, but if left untreated, it will eventually erode into levee prism; site is recommended for annual assessment and monitoring of site, per CLRO CES 2008 Report; Site # is the same as RM6.80,LM0.73; previously rated "U". 07/22/2008: Downstream of WPRR near siphon pipe & pump; sandy levee; visited by Jeff Van Gilder and LRO in 2008 for repair assessment; scouring downstream of RR crossing, possibly caused by eddy effects. 03/13/2007: Site visited on 03/13/2007. [2013 Site ID:RD2095U01RM6.74]					

Photo 1 of 2 : mkhashch_s_20140428_00783.jpg



Direct view of the erosion at the upstream of RR bridge.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.73	Rating **	M	Issue No.	1 (cont)	
LM End	0.74	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.763630 °	37.763630 °	
				-121.319000 °	-121.319000 °	
DWR ID	DWR_RD2095_01_s _ 2014_1					
Action/Comments						
Inspector Comments: 08/28/2013: No significant change observed. 07/18/2012: No significant changes observed. 09/02/2011: No significant changes observed. 09/22/2010: No significant changes observed. There is now considerable vegetation at the water line and along the lower berm slope. However, the erosion on the lower berm slope is still present and has not been corrected. 08/06/2010: Recommended for local maintenance issue, per CLRO. 07/29/2009: No major change since last visit; noticeable vegetation growth; erosion is on berm, but if left untreated, it will eventually erode into levee prism; site is recommended for annual assessment and monitoring of site, per CLRO CES 2008 Report; Site # is the same as RM6.80,LM0.73; previously rated "U". 07/22/2008: Downstream of WPRR near siphon pipe & pump; sandy levee; visited by Jeff Van Gilder and LRO in 2008 for repair assessment; scouring downstream of RR crossing, possibly caused by eddy effects. 03/13/2007: Site visited on 03/13/2007. [2013 Site ID:RD2095U01RM6.74]						

Photo 2 of 2 : mkhashch_s_20140428_00784.jpg



Close view of the erosion downstream RR bridge.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.86	Rating **	M	Issue No.	2
LM End	0.86	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.761960 °	37.761960 °
				-121.318140 °	-121.318140 °
DWR ID	DWR_RD2095_01_s _ 2014_2				
Action/Comments					
Inspector Comments: 08/28/2013: No significant change observed. 07/18/2012: No significant change observed. 09/02/2011: No significant change observed. 09/22/2010: No significant change observed. Sloughing of the existing rip rap possibly due to a combination of steep slope and undesirable flood conditions. 08/06/2010: Recommended as local maintenance issue, per CLRO. 07/29/2009: No major change observed since last visit; near-vertical slope that has rip rap sloughing; site is recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM6.90,LM0.86; previously rated "U". 07/22/2008: Previous erosion site that is partially protected with concrete rubble; erosion scarp is adjacent to the sloughing rip rap. 03/13/2007: Site visited on 03/13/2007. [2013 Site ID:RD2095U01RM6.88]					

Photo 1 of 1 : mkhashch_s_20140428_00785.jpg



Direct view of the site.

LM Start	0.87	Rating **	A/W	Issue No.	4
LM End	0.87	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.761475 °	37.761475 °
				-121.317804 °	-121.317804 °
DWR ID	DWR_RD2095_01_f _ 2013_4				
Action/Comments					
Fence Inspector Comments: Unpermitted gate across landside levee ramp. District is in process of submitting an application for a permit from CVFPB. A key was provided to the DWR inspector.					

Photo 1 of 1 : mkhashch_s_20140428_00787.jpg



View of the new gate at landside levee hinge.

* Location
LS : Land Side
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+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.87	Rating **	M	Issue No.	130
LM End	0.87	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761582 °	37.761582 °
				-121.317880 °	-121.317880 °
DWR ID	DWR_RD2095_01_s _ 2014_130				
Action/Comments					

Action/Comments

Inspector Comments: FS_ID:19812
 EP_NO: 13926
 Repair Type:
 Crossing Status:
 UCIP Comments: No electrical connection can be identified. Possibly awaiting a flood event for re-activation.
 FIELD_STRUCT_DESC: 40-inch steel stormdrain discharge pipe through the levee 1-foot below the crown. 6 pumps mounted on wooden pier at LS toe, all discharge into 40-inch pipe. Permit was for a 24-inch steel discharge pipe through levee 2.0 feet below crown with a flapgate on waterward side. But, Permit notes show it was modified in 2001 to its current status (Permit No. 13926).
 FS Date: 9/10/2013

Photo 1 of 1 : UCIP_2123.jpg



Pumps on pier at LS toe. Note electrical conduit without connection on right side of pier.

LM Start	0.88	Rating **	M	Issue No.	131
LM End	0.88	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761553 °	37.761553 °
				-121.317846 °	-121.317846 °
DWR ID	DWR_RD2095_01_s _ 2014_131				
Action/Comments					

Action/Comments

Inspector Comments: FS_ID:19806
 EP_NO: 6259
 Repair Type:
 Crossing Status:
 UCIP Comments: What appears to be the concrete headwall on the LS toe is tilting and failing. There is a possibility that the concrete is rubble used to fill in around levee toe. Good candidate for video inspection.
 FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through levee 21.0 feet below crown. Slide gate in riser on the waterward slope. Concrete headwalls and aprons on both ends. Flap gate on the waterward end. Two corrugated metal cutoff walls (Permit No. 6259, 1969).
 FS Date: 9/10/2013

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.91	Rating **	M	Issue No.	132
LM End	0.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761079 °	37.761079 °
				-121.317566 °	-121.317566 °
DWR ID	DWR_RD2095_01_s _ 2014_132				
Action/Comments					
Inspector Comments: FS_ID:19815					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe abandoned and should be verified as having been done so properly.					
FIELD_STRUCT_DESC: 12-inch steel stormdrain pipe through the levee 1.5 feet below the crown. Pump on pile structure in drain ditch on landward side. Siphon breaker in steel standpipe on the waterward slope. Originally included in the 1964 O&M manual.					
FS Date: 9/10/2013					

Photo 1 of 1 : UCIP_2129.jpg



Possible location of 12-inch pipe connection to pump on LS toe.

LM Start	0.92	Rating **	M	Issue No.	133
LM End	0.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761046 °	37.761046 °
				-121.317539 °	-121.317539 °
DWR ID	DWR_RD2095_01_s _ 2014_133				
Action/Comments					
Inspector Comments: FS_ID:19813					
EP_NO: 6537					
Repair Type:					
Crossing Status:					
UCIP Comments: Corroded holes on pipe at outlet WS toe, good indication of internal pipe condition. Good candidate for video inspection.					
FIELD_STRUCT_DESC: 14-inch steel stormdrain discharge pipe through the levee 2.5 feet below the crown. Pump on pile structure in drain ditch on landward side. Siphon breaker in 24-inch CMP riser on the waterward shoulder and flap gate on the waterward end (Permit No. 6537, 1969).					
FS Date: 9/10/2013					

Photo 1 of 1 : UCIP_2126.jpg



Pump on wooden pier at LS toe.

* Location		** Rating		+ Issue Type	
LS : Land Side		A : Acceptable		Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable		Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable		En : Enforcement	
		N : Not Inspected/Rated			
		C : Corrected			
		A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.92	Rating **	A/W	Issue No.	18
LM End	0.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.760792 °	37.760792 °
				-121.317705 °	-121.317705 °
DWR ID	DWR_RD2095_01_s _ 2012_18				
Action/Comments					
Pipe					
Inspector Comments: Pipe on south is connected with siphon breaker at hinge point.					

Photo 1 of 1 : mkhashch_s_20140428_00796.jpg



11/01/2011 Siphon breaker at hinge point on waterside.

* Location
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WS : Water Side
CR : Crown

** Rating
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
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En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Left	3.38
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	05/13/2014 - 05/13/2014			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Rosie Silva RD2095			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.03	Rating **	A/W	Issue No.	9
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.758986 °	37.758986 °
				-121.307854 °	-121.307854 °
DWR ID	DWR_RD2095_02_s _ 2013_9				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : mkhashch_s_20140428_00806.jpg



View of the vehicle tire ruts on waterside levee slope.

LM Start	0.18	Rating **	A/W	Issue No.	10
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.757322 °	37.757322 °
				-121.306291 °	-121.306291 °
DWR ID	DWR_RD2095_02_s _ 2013_10				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : mkhashch_s_20140428_00807.jpg



View of the vehicle tire ruts on waterside levee slope.

LM Start	0.36	Rating **	M	Issue No.	5
LM End	0.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.754952 °	37.749645 °
				-121.305880 °	-121.301977 °
DWR ID	DWR_RD2095_02_f _ 2012_5				
Action/Comments					
Ditch					

Photo 1 of 1 : mkhashch_s_20140428_00804.jpg



View of ditch along landside toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.62	Rating **	A/W	Issue No.	6
LM End	0.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.751668 °	37.751668 °
				-121.304302 °	-121.304302 °
DWR ID	DWR_RD2095_02_s_2012_6				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : mkhashch_s_20140428_00805.jpg



11/01/2011 Elderberry bush at landside toe.

LM Start	0.75	Rating **	A/W	Issue No.	14
LM End	0.75	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.749916 °	37.749916 °
				-121.303312 °	-121.303312 °
DWR ID	DWR_RD2095_02_f_2013_14				
Action/Comments					
Fence Inspector Comments: Unpermitted gate across levee crown. District has submitted an application for a permit from CVFPB. A key was provided to DWR inspector.					

Photo 1 of 1 : mkhashch_s_20140428_00808.jpg



View of new gate across levee crown.

LM Start	0.76	Rating **	A/W	Issue No.	11
LM End	0.76	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.749710 °	37.749710 °
				-121.303263 °	-121.303263 °
DWR ID	DWR_RD2095_02_s_2012_11				
Action/Comments					
Pipe Inspector Comments: Two pipes penetrate levee freeboard. Siphon breakers present.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	0.77	Rating **	A/W	Issue No.	13
LM End	0.77	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.749781 °	37.749781 °
				-121.302991 °	-121.302991 °
DWR ID	DWR_RD2095_02_s _ 2012_13				
Action/Comments					
Pipe					
Inspector Comments: Intake pump and pipe.					

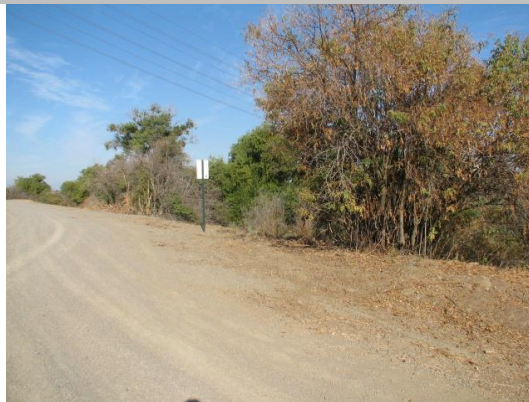
No Photos

LM Start	0.98	Rating **	A/W	Issue No.	940
LM End	0.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749737 °	37.749737 °
				-121.300002 °	-121.300002 °
DWR ID	DWR_RD2095_02_s _ 2012_940				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	1.01	Rating **	U	Issue No.	941
LM End	1.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749650 °	37.749650 °
				-121.299362 °	-121.299362 °
DWR ID	DWR_RD2095_02_s _ 2012_941				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Dense bush within 20' of crown on waterside slope.					

Photo 1 of 1 : mkhashch_s_20140428_00811.jpg



Elderberry blocks visibility of levee slope.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	1.09	Rating **	N	Issue No.	3
LM End	1.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.748254 °	37.748254 °
				-121.298993 °	-121.298993 °
DWR ID	DWR_RD2095_02_s _ 2012_3				
Action/Comments					
Tree stumps.					
Inspector Comments: 4 stumps					

No Photos

LM Start	1.31	Rating **	N	Issue No.	8
LM End	1.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.745343 °	37.745343 °
				-121.297620 °	-121.297620 °
DWR ID	DWR_RD2095_02_f _ 2012_8				
Action/Comments					
Tree stumps.					
Inspector Comments: Two tree stumps.					

No Photos

LM Start	1.35	Rating **	A/W	Issue No.	195
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.744746 °	37.744746 °
				-121.297695 °	-121.297695 °
DWR ID	DWR_RD2095_02_s _ 2014_195				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : mkhashch_s_20140519_01020.jpg



View of the erosion on the waterside levee slope possibly eroding into the levee prism.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	1.50	Rating **	M	Issue No.	192
LM End	1.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.743142 °	37.743142 °
				-121.297692 °	-121.297692 °
DWR ID	DWR_RD2095_02_s _ 2014_192				
Action/Comments					
Inspector Comments: FS_ID:19863					
EP_NO: 4658					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe appears abandoned in place and re-routed to					
LM 1.652. Need to verify pipe was properly abandoned. Permit					
FIELD_STRUCT_DESC: *Abandoned* 14-inch pipe through levee 3.5-					
feet below crown. Pump on structure over drain ditch on the landward					
side. Flap gate on the waterward end (Permit No. 4658). Originally					
included in the 1968 O&M manual.					
FS Date: 9/10/2013					

Photo 1 of 1 : UCIP_2140.jpg



Pump visible on LS toe, but pipe has been re-routed to southwest.

LM Start	1.54	Rating **	A/W	Issue No.	12
LM End	1.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.742828 °	37.742828 °
				-121.297532 °	-121.297532 °
DWR ID	DWR_RD2095_02_s _ 2012_12				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	1.65	Rating **	M	Issue No.	193
LM End	1.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.741345 °	37.741345 °
				-121.296189 °	-121.296189 °
DWR ID	DWR_RD2095_02_s _ 2014_193				
Action/Comments					
Inspector Comments: FS_ID:19866					
EP_NO: 6298A					
Repair Type:					
Crossing Status:					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: 16-inch steel stormdrain pipe through the					
levee 2-feet below the crown. Siphon breaker in PVC riser on WS					
shoulder. Pump on pier in ditch on LS toe 750-feet to Northwest from					
crossing.					
FS Date: 9/10/2013					

No Photos

LM Start	1.77	Rating **	M	Issue No.	1
LM End	1.80	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.740196 °	37.740196 °
				-121.297662 °	-121.297662 °
DWR ID	DWR_RD2095_02_s _ 2014_1				
Action/Comments					
Inspector Comments: 08/28/2013: No significant change observed. 09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey. The site was not visited by boat survey due to the limitation of navigable waterway. 08/23/2011: No significant changes observed. 9/22/2010: No significant changes observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe. 9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2013 Site ID:RD2095U02RM60.62]					

Photo 1 of 1 : mkhashch_s_20140428_00802.jpg



Looking at the erosion.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	1.85	Rating **	M	Issue No.	2
LM End	1.89	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.738880 °	37.738880 °
				-121.298260 °	-121.298260 °
DWR ID	DWR RD2095 02 s 2014 2				

Action/Comments

Inspector Comments: 08/28/2013: No significant change observed. Dense vegetation blocks the visual inspection at the site.
 09/13/2012: The site has been visited by land survey. The erosion is not visible from the levee slope because of dense vegetation at the site. Levee slope is protected by placed rocks. The site was not visited by boat survey due to the limitation of navigable waterway.
 08/23/2011: Dense vegetation makes it difficult to view the possible erosion. No new development was observed on site.
 09/23/2010: At the time of the inspection, the erosion site was difficult to view from the levee. Erosion is located on the bank toe, below the existing rip rap. There were no signs of repair on site, nor has the site been reported to be repaired by the district. Images taken from last year indicate that existing rip rap at the bank toe has sloughed exposing the underlying soils. Weakening of the toe could lead to future bank instability.
 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO.
 09/29/2009: No major change observed since last visit; sloughing of the rip rap above toe; erosion begins immediately downstream of existing rip rap revetment; roughly 15-foot berm remains; however, it will continue to erode and eventually intrude into the levee profile if left untreated.
 10/20/2006: Just upstream of where berm starts to widen. [2013 Site ID:RD2095U02RM60.69]

Photo 1 of 1 : mkhashch_s_20140428_00803.jpg



Direct view of the erosion.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	2.11	Rating **	M	Issue No.	194
LM End	2.11	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.735415 °	37.735415 °
				-121.297859 °	-121.297859 °
DWR ID	DWR_RD2095_02_s_2014_194				
Action/Comments					
Inspector Comments: FS_ID:19867					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Siphon breaker on LS shoulder does not appear to be functional.					
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 2.0-feet below the crown. Slant pump on steel platform on WS slope. Siphon breaker on the landward shoulder marked by T-post. Service pole and meter on the landward toe. Possible concrete standpipe on LS toe. Originally included in the 1968 O&M manual.					
FS Date: 9/10/2013					

Photo 1 of 1 : UCIP_2148.jpg



Slant pump on metal pier at WS toe.

LM Start	2.14	Rating **	M	Issue No.	20
LM End	2.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.734858 °	37.734858 °
				-121.297758 °	-121.297758 °
DWR ID	DWR_RD2095_02_s_2012_20				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : mkhashch_s_20140428_00810.jpg



Vegetation on waterside slope obstructs access and visibility.

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A/W : Acceptable but Monitor & Maintain

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	2.39	Rating **	A/W	Issue No.	23
LM End	2.39	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.731555 °	37.731555 °
				-121.298283 °	-121.298283 °
DWR ID	DWR_RD2095_02_s _ 2012_23				
Action/Comments					
Pipe					

No Photos

LM Start	2.70	Rating **	A/W	Issue No.	26
LM End	2.70	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.727233 °	37.727233 °
				-121.299732 °	-121.299732 °
DWR ID	DWR_RD2095_02_f _ 2013_26				
Action/Comments					
Pipe Inspector Comments: Pipe connections have been made. Permit application needed for this emergency repair.					

No Photos

LM Start	2.73	Rating **	A/W	Issue No.	25
LM End	2.73	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.726733 °	37.726733 °
				-121.299367 °	-121.299367 °
DWR ID	DWR_RD2095_02_s _ 2012_25				
Action/Comments					
Pipe					
Inspector Comments: Discharge pipe with closure structure on waterside hinge point.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	05/13/2014 05/13/2014	Maksim Khashchuk

LM Start	2.88	Rating **	M	Issue No.	15
LM End	2.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.724633 °	37.724633 °
				-121.299732 °	-121.299732 °
DWR ID	DWR_RD2095_02_s _ 2014_15				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : mkhashch_s_20140519_01021.jpg



View of the erosion on the landside levee slope and hinge.

LM Start	2.89	Rating **	M	Issue No.	19
LM End	2.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.724435 °	37.724435 °
				-121.299868 °	-121.299868 °
DWR ID	DWR_RD2095_02_s _ 2014_19				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : mkhashch_s_20140519_01022.jpg



View of the erosion on the landside levee hinge and slope.

LM Start	2.91	Rating **	M	Issue No.	196
LM End	2.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.724246 °	37.724246 °
				-121.299997 °	-121.299997 °
DWR ID	DWR_RD2095_02_s _ 2014_196				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : mkhashch_s_20140519_01023.jpg



View of the erosion on the landside levee hinge and slope.

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